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# U. S. DEPARTMENT OF AGRICULTURE, BUREAU OF ANIMAL INDUSTRY.

A. D. MELVIN, CHIEF OF BUREAU.

## SERVICE AND REGULATORY ANNOUNCEMENTS.

APRIL, 1914.

[This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the bureau, establishments at which the Federal meat inspection is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each, or 50 cents a year. A supply will be sent to each official in charge of a station or branch of the bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.]

### CHANGES IN DIRECTORY.

#### Meat Inspection Inaugurated.

- 156. Metropolitan Hotel Supply Co., 875 Washington Street, New York, N. Y.
- \*191—A. Frye & Co., Thirteenth and Hoyt Streets, Portland, Oreg.
- 828. Inspection extended to include W. H. Bristol, Lewiston, Idaho.
- 927. D. Winant (Inc.), 178 Front Street, New York, N. Y.
- 928. Hoover & Denham, 929-931 D Street NW., Washington, D. C.
- 929. Arthur E. Dorr & Co. (Inc.), 2 North Street, Boston, Mass.
- \*930. Missouri Valley Packing Co., 50 North Second Street, Kansas City, Kans.

#### Meat Inspection Discontinued.

- \*7. Albert Lea Packing Co., Albert Lea, Minn.
- 248. The Southern Cotton Oil Co. and Edible Products Co., Savannah, Ga.
- 627. D. M. Bodine, Trenton, N. J.
- 800. The Misses Gregory, Newark, N. J.
- 817—A. Forest Home, Purcellville, Va.
- \*854. West End Packing Co., St. Louis, Mo.

#### Change in Firm Name.

- 478. D. Brandt instead of C. & D. Brandt, Union Hill, N. J.

#### Change in Firm Name and Establishment Number.

- \*80—A. Rohe & Bro., 655 West Fortieth Street, New York, N. Y., instead of \*744.
- J. Love & Co., 655 West Fortieth Street, New York, N. Y.

\* Conducts slaughtering.

**Stations Added.**

Clemson College, S. C., tick eradication, Dr. W. K. Lewis.  
 Coldwater, Mich., hog cholera demonstration work, Dr. H. M. Newton.  
 Olivia, Minn., hog cholera demonstration work, Dr. G. S. Weaver.

**Stations Discontinued.**

Albert Lea, Minn.  
 Saegerstown, Pa. (Substation of Pittsburgh, Pa.)

**Changes of Officials in Charge.**

Albany, N. Y., Dr. J. E. Gibson instead of Dr. J. P. O'Leary.  
 Cincinnati, Ohio, Dr. D. C. Burnett instead of Dr. E. L. Bertram.  
 National Stock Yards, Ill., Dr. E. L. Bertram instead of Dr. I. C. Mattatall.

**NOTICES REGARDING MEAT INSPECTION.****MARKING WRAPPED MEATS.**

Referring to the instructions in Service and Regulatory Announcements for January, 1914, under the caption "Marking wrapped meats," attention is called to the fact that these instructions apply to all meats wrapped in burlap or other cloth covering to which trade labels are not ordinarily affixed.

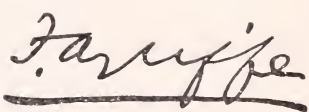

Attention is also called to the fact that the bureau furnishes 2½-inch rubber brands for this purpose, which will be furnished to inspectors in charge upon receipt of requisition indicating the number required for each establishment.

**CLEANING HOG PRODUCTS.**

The attention of inspectors in charge is earnestly directed to various notices appearing in Service Announcements dealing with the cleaning of hog products. It is very necessary that these instructions be carefully and fully complied with and that no products be permitted to leave an establishment in an unclean condition. Inspectors in charge are directed to report any failure on the part of individual inspectors to comply fully with these instructions.


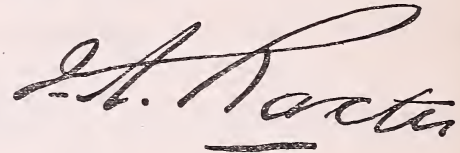
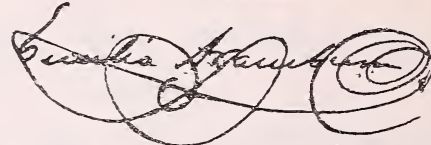
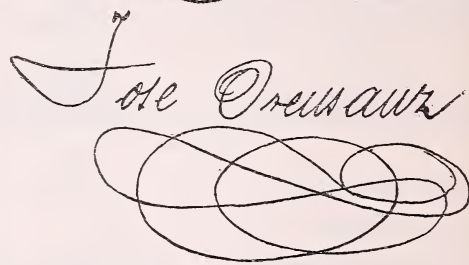
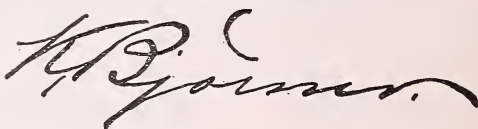
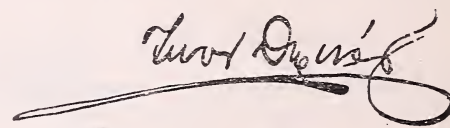
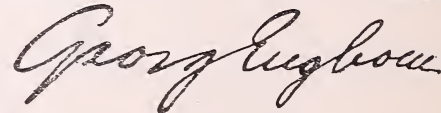
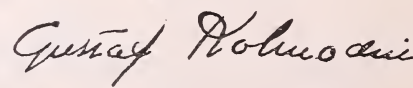
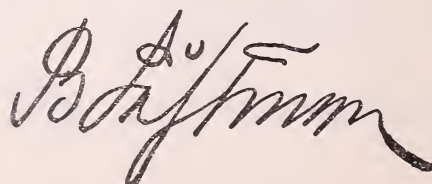
**SIGNATURES OF FOREIGN MEAT INSPECTORS.**

To enable bureau inspectors to verify the signatures of foreign official meat inspectors authorized to certify to meat and meat food products, the following names, addresses, and facsimile signatures are given:

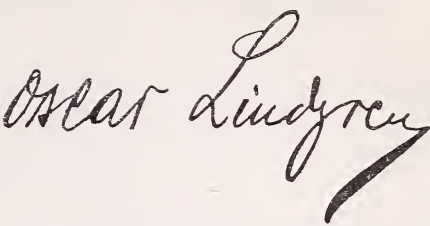
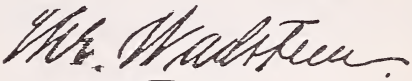

Country, name, and address.	Signature.
<p><i>England.</i></p> <p>Frank Ayliffe, secretary of the            Port of London Authority,            109 Leadenhall Street, London.</p> <p>Martin Ashley, Park Street,            Cirencester.....</p>	 

Country, name, and address.	Signature.
<i>England—Continued.</i>	
G. G. Buchanan, Haddington.	<i>G. G. Buchanan</i>
James McDonald, Carlisle.....	<i>James McDonald</i>
C. Killick Millard, Leicester...	<i>C. Killick Millard</i>
A. S. Underhill, Tipton, Staf- fordshire.....	<i>A. S. Underhill</i>
<i>Germany.</i>	
Friedrich Baumhöfener, Halle, Westphalia.....	<i>Friedrich Baumhöfener</i>
<i>Ireland.</i>	
Robert Currie, Ballymena.....	<i>Robert Currie</i>
Robert J. Martyn, Sligo.....	<i>Robert J. Martyn</i>
<i>Italy.</i>	
Angelo Fiorentini, Milan.....	<i>Angelo Fiorentini</i>
Ottavio Ghisi, Milan.....	<i>Ottavio Ghisi</i>
Giulio Gagliardi, Milan.....	<i>Giulio Gagliardi</i>
Luigi Oriani, Milan.....	<i>Luigi Oriani</i>
G. Spreafica, Milan.....	<i>G. Spreafica</i>
P. Pesce, Milan.....	<i>P. Pesce</i>



Country, name, and address.	Signature.
<i>Italy—Continued.</i>	
Michelangelo Mayer, Fossacesia.....	
<i>Scotland.</i>	
J. A. Baxter, Dundee.....	
<i>Spain.</i>	
Emilio Aramburo Ibañez, Alicante.....	
José Orensanz, Valencia.....	
<i>Sweden.</i>	
K. Björner, Malmo.....	
Iwar Dunér, Gothenburg.....	
Georg Engbom, Gothenburg...	
Gustaf Kolmodin, Gothenburg	
B. Låftman, Malmo.....	



Country, name, and address.	Signature.
Sweden—Continued.	
Oscar Lindgren, Gothenburg..	
Christian Wadstein, Gothenburg.....	
E. Osberg, Malmo.....	

ANIMALS SLAUGHTERED UNDER FEDERAL MEAT INSPECTION,  
MARCH, 1914.

	Cattle.	Calves.	Sheep.	Goats.	Swine.
Chicago.....	104, 119	35, 920	321, 786	31	398, 782
Kansas City.....	51, 044	5, 478	130, 127	3, 955	165, 719
National Stock Yards.....	19, 501	3, 069	31, 898	.....	103, 235
South Omaha.....	38, 256	1, 435	172, 171	162	199, 212
South St. Joseph.....	14, 420	1, 251	76, 409	.....	117, 475
All other establishments.....	249, 066	98, 073	410, 797	1, 624	1, 563, 329
Total.....	476, 406	145, 226	1, 143, 188	5, 772	2, 547, 752

IMPORTS OF FOOD ANIMALS, AND OF MEATS AND MEAT FOOD  
PRODUCTS.

The imports of food animals and of meats and meat food products inspected by the Bureau of Animal Industry during March, 1914, are shown in the following tables:

FOOD ANIMALS.

Country of export.	Cattle.	Swine.	Sheep.	Goats.
Canada.....	3, 584	8, 192	17	.....
Mexico.....	42, 807	357	18, 639	31, 325
Total.....	46, 391	8, 549	18, 656	31, 325

## MEATS AND MEAT FOOD PRODUCTS.

Country of export.	Fresh and refrigerated meats.		Canned and cured meats.	Other products.	Total.
	Beef.	Other.			
Argentina.....	20,784,393	1,663,542	216,711	146,871	22,811,517
Australia.....	1,390,239	490,654	717,765	24,246	2,622,904
Canada.....	540,408	379,424	261,161	70,873	1,251,866
Uruguay.....	5,783,602	423,804	72,654	2,400	6,282,460
Other countries.....		11,219	146,775	106,013	264,007
Total.....	28,498,642	2,968,643	1,415,066	350,403	33,323,754

The condemnations of imported meats and meat food products during February and March, 1914, were as follows: February, 60,601 pounds; March, 87,655 pounds.

## CONVICTIONS FOR VIOLATIONS OF LAWS.

## MEAT-INSPECTION LAW.

In the case of the United States *v.* T. F. Smith, Orson, Pa., for violating the meat-inspection act in shipping unsound meat in interstate trade, the defendant pleaded guilty and was sentenced to pay a fine of \$10.

In the case of the United States *v.* Louis Adler, Tonganoxie, Kans., for violating the meat-inspection act in shipping uninspected meats in interstate trade, the defendant pleaded guilty and was sentenced to pay a fine of \$25 and costs.

In the case of the United States *v.* J. W. West, Kansas City, Kans., for violating the meat-inspection act in shipping uninspected meats in interstate trade, the defendant entered a plea of *nolo contendere* and was fined \$7.50 and costs.

In the case of the United States *v.* Armour & Co., Troy, N. Y., for violating the meat-inspection act in shipping uninspected meats in interstate trade, the defendant pleaded guilty and was fined \$25.

In the case of the United States *v.* Swift & Co. (Ltd.), Harvey, La., for violating the meat-inspection act in unlawfully using labels bearing the Federal meat-inspection legend, the defendant company entered a plea of *nolo contendere* and was fined \$100.

## QUARANTINE LAW.

The following results of prosecutions for violations of the live-stock quarantine law have been reported to the bureau during the month of April, 1914:

Number of cases.	Defendant.	Nature of violation.	Fine.
1	Louisville & Nashville R. R. Co.	Interstate shipment of cattle infested with Texas fever ticks.	\$100 and costs.
1	do.	do.	100 and costs.
1	Yazoo & Mississippi Valley R. R. Co.	do.	100
1	Monroe Seabolt.	do.	100
1	Louisville & Nashville R. R. Co.	do.	100 and costs.
1	Denver & Rio Grande R. R. Co.	Interstate shipment of sheep affected with scabies.	100
1	Kansas City, Mexico & Orient Ry. Co.	Interstate shipment of cattle infested with Texas fever ticks.	100 and costs.
3	Galveston, Harrisburg & San Antonio Ry. Co.	Interstate shipment of sheep affected with scabies.	300
	Total.....		1,000

## TWENTY-EGHT-HOUR LAW.

The following results of prosecutions for violations of the 28-hour law have been reported to the bureau during the month of April, 1914:

Number of cases.	Defendant.	Fine.
1	Kansas City Southern Ry. Co.....	\$118.60
3	Louisville & Nashville R. R. Co.....	347.25
10	do.....	1,000.00
2	Baltimore & Ohio Southwestern R. R. Co.....	338.65
1	Chesapeake & Ohio R. R. Co.....	119.11
1	Wabash R. R. Co.....	112.10
2	do.....	216.10
1	Union Pacific R. R. Co.....	139.74
7	Baltimore & Ohio R. R. Co.....	1,144.75
	Total.....	3,536.30

## SUBSTANCES PERMITTED FOR OFFICIAL DIPPING OF SHEEP.

The use of the following-named substances is permitted by the department in the official dipping of sheep for scabies:

"*Iowa City Stock Dip*," a coal-tar creosote dip, manufactured for the Iowa City Food & Remedy Co., Iowa City, Iowa. Dilution permitted, 1 gallon to not more than 69 gallons of water.

"*Masol*," a cresol dip, manufactured by the Kansas City Sanitary Co., Kansas City, Mo. Dilution permitted, 1 gallon to not more than 141 gallons of water.

"*Sterling Coal Tar Disinfectant*," a coal-tar creosote dip, manufactured for the Sterling Chemical Co., Buffalo, N. Y. Dilution permitted, 1 gallon to not more than 75 gallons of water.

REPORTING MOVEMENT OF SOUTHERN CATTLE FROM STATIONS  
WHERE UNLOADED FOR FEED, REST, AND WATER.

Southern cattle which are unloaded in the quarantine pens at any station for feed, rest, and water, in transit, and are reloaded and forwarded in the same cars, should not be reported either as receipts or shipments of southern cattle on the monthly F. I. Form 19 report from that station, nor should the cars in which such cattle are reloaded be reported on the F. I. Form 62 as infectious cars received at that station; neither is it necessary to forward an F. I. Form 21 report for such reloaded shipments.

## THE OPHTHALMIC TEST FOR GLANDERS.

A pamphlet entitled "The Ophthalmic Test for Glanders" has been printed, containing explanations of and instructions for applying this test, and copies have been mailed to bureau inspectors in charge. Additional copies may be procured upon request.

Ophthalmic tests applied by bureau inspectors and by official veterinarians of the various States in intrastate glanders investigations should be reported upon Q. D. Form 69. Any supplies of Q. D. Form 59 on hand should be destroyed.

## REGULATION OF THE ARGENTINE REPUBLIC RELATIVE TO IMPORTED FOOD PRODUCTS OF ANIMAL ORIGIN.

"It is decreed—

"That the following regulation proposed by the National Department of Hygiene for the shipment of food products of animal origin be herewith approved:

"1. In virtue of those that determine the regulations at present in force, it is required of manufacturers or importers of products of animal origin to indicate henceforward clearly on the packages of each shipment, the class of alimentary substance from which each canned product, be it fish, tunny fish, sardines, etc., or any other class of meat of domestic or other animals, has been made up; without which requirement such goods will not be permitted to enter the country.

"2. In like manner it is required to announce on the shipment the name of the manufacturer and the source of origin in accordance with the rules established in the article already cited.

"3. There is allowed a period of six months from the date of official publication of this resolution for those thereby affected to arrange to carry out the conditions set by the preceding articles, with the understanding that in case they do not do so they shall incur the penalties which are set by the regulations now in force. This period of time should be understood, concerning shipments of merchandise in steamers which sail from foreign ports, as beginning with the date of the completion of the time granted, which will under no circumstances be prolonged."

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## INSPECTION AND TESTING OF ANIMALS FOR CANADA.

The following names have been added to the list of practicing veterinarians registered by the bureau and authorized to inspect and test with mallein horses, mules, and asses intended for export to Canada:

Dr. G. W. Chapman, Webster, S. Dak.

Dr. J. J. McDowell, Aberdeen, S. Dak.

Dr. H. G. White, Kokomo, Ind.

Dr. T. V. Treacy, Drayton, N. Dak.

Dr. Foster H. Pierce, Faulkton, S. Dak.

Dr. H. A. Hartwich, Madison, S. Dak.

Dr. B. H. Olds, Columbus, Ohio.

Dr. E. E. Sayers, Algona, Iowa.

Dr. W. F. Rode, 413 N. Franklin Street, St. Paul, Minn.

Dr. O. J. Johnson, Miles City, Mont.

Dr. C. I. Fleming, 20 W. Fifth Street, Terre Haute, Ind.

Dr. B. H. Cooper, Flandreau, S. Dak.

Dr. Frederick S. Gray, Box 817, Great Falls, Mont.

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## AUTHORIZATIONS FOR FISCAL YEAR 1915.

The preparation of the general authorizations for the fiscal year 1915 will be begun within a short time, and inspectors in charge and others having such authorizations are requested to advise the bureau at once of any changes that may be necessary. The necessity for all changes should be explained in detail, in order that the administrative officers of the bureau may have sufficient information to give the question proper consideration.



# LIST OF LICENSES AND PERMITS ISSUED FOR MANUFACTURE AND IMPORTATION OF VETERINARY BIOLOGICAL PRODUCTS.

Licenses for the manufacture and permits for the importation of veterinary biological products during the calendar year 1914 have been issued as follows under the act of Congress of March 4, 1913 (37 Stat., 832), and the regulations made thereunder (B. A. I. Order 196):

## *Licenses for the manufacture of veterinary biological products.*

License.	Name and address of firm.	Products.
1	National Vaccine and Antitoxin Institute, 1513-1515 U Street NW., Washington, D. C.	Veterinary tuberculin.
2	Eagle Serum Co., Third Street and Central Avenue, Kansas City, Kans.	Anti hog-cholera serum; hog-cholera virus.
3	H. K. Mulford Co., Philadelphia, Pa.	Blackleg vaccine; anthrax vaccine; abortin solution; pneumo-strepto mixed bacterin; polyvalent mixed bacterin; strepto-bacterin; coli bacterin; staphylococcus bacterin; antistreptococcic serum; tetanus antitoxin; rabies vaccine; abortus bacterin; tuberculin; mallein; anti hog-cholera serum.
4	The Abbott Laboratories, Chicago, Ill.	Poly-bacterins (staphylococci, streptococci, and <i>Bacillus coli</i> ); staphylo-bacterins (mixed staphylococci); strepto-bacterins (antinfluenza bacterins); blackleg vaccine; canine distemper bacterin ( <i>Bacillus bronchisepticus</i> , staphylococci, and streptococci).
5	Parke, Davis & Co., Detroit, Mich..	Mallein; influenza antitoxin, veterinary; antitetanic serum, veterinary; equine influenza vaccine (curative); equine influenza vaccine (prophylactic); canine distemper vaccine (curative); canine distemper vaccine (prophylactic); colon vaccine; streptococcus vaccine; staphylococcus vaccine; streptococcus and staphylococcus vaccine (combined) (veterinary); antistreptococcus serum polyvalent; blacklegoids, single; blacklegoids, double; pneumonia phylacogen; mixed-infection phylacogen; tuberculin.
6	Pitman-Moore Co.; plant, Zionsville, Ind.; office, Indianapolis, Ind.	Anti hog-cholera serum; hog-cholera virus.
9	The Lederle Antitoxin Laboratories, Pearl River, N. Y.	Tetanus antitoxin; antistreptococcus serum; rabies vaccine; equine influenza vaccine; colon vaccine; streptococcus vaccine; staphylococcus vaccine; pneumococcus vaccine and mixed bacterial vaccines; tuberculin; mallein.
12	The Royal Serum Co., 286 Central Avenue, Kansas City, Kans.	Anti hog-cholera serum; hog-cholera virus.
17	Beebe Biological Laboratories; laboratory, 159-163 West Third Street; office, 311 Lowry Annex, St. Paul, Minn.	Anti-influenza vaccine; blackleg vaccine; mallein; tuberculin; staphylococcic and streptococcic vaccine; normal horse serum.
18	Stock Yards Serum Co., 211 Central Avenue, Kansas City, Kans.	Anti hog-cholera serum; hog-cholera virus.
22	The Accuracy Laboratories, 1714 West Madison Street, Chicago, Ill.	Pneumococcus vaccine; combined staphylococcus vaccine; polyvalent bacterin; coli communis bacterin; influenza bacterin; streptococcus vaccine; combined streptococcus, staphylococcus, coli, and pneumococcus vaccine.
23	Missouri Valley Serum Co., 50 North Second Street, Kansas City, Kans.	Anti hog-cholera serum; hog-cholera virus.
24	The Sihler Hog Cholera Serum Co., Central Avenue and Water Street, Kansas City, Kans.; office, 1602 West Sixteenth Street, Kansas City, Mo.	Do.

*Licenses for the manufacture of veterinary biological products—Continued.*

License.	Name and address of firm.	Products.
31	Comparative Vaccine Laboratories, 214 Livingston Street, Brooklyn, N. Y.	Vaccine aggressin, mixed; dog-distemper vaccine; autogenous vaccine; vaccine equina.
33	Dr. Willis A. Myers & Co., South Main Street, Wenona, Ill.	A combined bacterial vaccine.
34	National Serum Co., Second Street, and Myers Avenue, Kansas City, Kans.; office, 634 Live Stock Exchange, Kansas City, Mo.	Anti hog-cholera serum; hog-cholera virus.
35	H. M. Alexander & Co., Marietta, Pa.	Tetanus antitoxin; antirabic vaccine; tuberculin; mallein.
38	The Hueben Serum Co., First Street and Waverly Avenue, Kansas City, Kans.	Anti hog-cholera serum; hog-cholera virus.
41	A. T. Kinsley Laboratories, 1426 Lydia Avenue; office, 1336 East Fifteenth Street, Kansas City, Mo.	Polyvalent bacterin; streptococcic bacterin; anti-influenza bacterin; canine-distemper bacterin; autogenous bacterin; colon bacterin; staphylococcic bacterin.
48	Kansas City Serum Co., Second Street and Myers Avenue, Kansas City, Kans.; office, 634 Live Stock Exchange, Kansas City, Mo.	Anti hog-cholera serum; hog-cholera virus.
49	Slee Laboratories, Swiftwater, Pa..	Tetanus antitoxin.
52	The Cutter Laboratory, Sixth and Grayson Streets, Berkeley, Cal.	Antisuppurine; mixed pneumonia vaccine (pneumo-streptococcic vaccine); streptococcic vaccine and anti-influenza vaccine; dog-distemper vaccine (mixed); blackleg vaccine; anthrax vaccine; tuberculin; mallein; tetanus antitoxin; antistreptococcic serum; distemper and influenza serum; antipneumococcic serum.
62	O K Serum Co., Thirty-third and L Streets; office, 255 Live Stock Exchange Building, South Omaha, Nebr.	Anti hog-cholera serum; hog-cholera virus.
63	Nebraska City Serum Co., Stock Yards, Nebraska City, Nebr.	Do.
64	Columbia Antitoxin Laboratory, 804a Broadway, Columbia, Mo.	Blackleg vaccine.
68	Dr. James McI. Phillips, 2057 North High Street, Columbus, Ohio.	Rabies vaccine.
69	Southern Serum Co., West Plains, Mo.	Anti hog-cholera serum; hog-cholera virus.
71	The Big O Serum Company, Central Avenue and Water Street, Kansas City, Kans.	Do.
81	Superior Serum Co., Second Street and Myers Avenue, Kansas City, Kans.; office, 710 Live Stock Exchange, Kansas City, Mo.	Do.
82	The Axtell Serum Co., Gilmore Station, South Omaha, Nebr.	Do.
83	E. R. Squibb & Sons, New Brunswick, N. J.	Antirabies vaccine; tetanus antitoxin.
84	The Grain Belt Supply Co., 3215 L Street, South Omaha, Nebr.	Anti hog-cholera serum; hog-cholera virus.

*Permits for importation of veterinary biological products.*

Permit No.	Name and address of firm.	Products.
1	C. Bischoff & Co. (Inc.), 451-453 Washington St., New York, N. Y.	Antitetanic serum; tuberculin; manufactured by Behringwerk, Marburg, Germany.
2	Pasteur Laboratories of America, 366-368 West Eleventh Street, New York, N. Y.	<p>Antianthrax serum; antitetanic serum; antistreptococcal serum; tuberculin; mallein; manufactured by Lab-pasteur (Service des Vaccins de l'Institut Pasteur), Paris, France.</p> <p>Anthrax vaccine; fowl-cholera vaccine; manufactured by Laboratoire des Vaccins Pasteur pour l'Etranger, Paris, France.</p> <p>Calf dysentery serum; septic pneumonia serum; fowl-cholera serum; dysentery germ-free extract; manufactured by Pharmaceutisches Institut Ludwig Wilhelm Gans, Frankfurt-on-the-Main, Germany.</p> <p>Antistrangles serum; canine distemper serum; manufactured by S�rum Anti-Gourmeux, Boulogne, France.</p> <p>Blackleg vaccine, manufactured by the Thomas Laboratory, Verdun, France.</p> <p>Blackleg vaccine, manufactured by Ed. Lua, Paris, France.</p>
3	Dr. Martin Szamatolski, Protective Serum Co., Bayonne, N. J.	Dog distemper serum; dog distemper bacterial extract; manufactured by Deutsche Sch�tz und Heilserum Gesellschaft, Berlin, Germany.

## PUBLICATIONS IN APRIL.

[The bureau keeps no mailing list for sending publications to individual employees, but publications are sent in bulk to inspectors in charge for distribution to members of their forces. The number of copies varies with the subject or nature of the publication and the number and class of employees. For example, in the case of a publication on a veterinary subject, sufficient copies are sent for the veterinarians. Inspectors in charge will use their judgment and distribute publications to best advantage. Additional copies will be furnished on request so far as possible.]

Department Bulletin 70. Immunization Tests With Glanders Vaccine. By John R. Mohler and Adolph Eichhorn, Pathological Division, Bureau of Animal Industry. Pp. 13.

Department Bulletin 76. Laboratory and Field Assay of Arsenical Dipping Fluids. By Robert M. Chapin, senior biochemist, Biochemic Division, Bureau of Animal Industry. Pp. 17, fig. 1.

Department Bulletin 85. The Cost of Pasteurizing Milk and Cream. By John T. Bowen, technologist, Dairy Division, Bureau of Animal Industry. Pp. 12, fig. 1.

Farmers' Bulletin 569. Texas or Tick Fever. By John R. Mohler, chief of the Pathological Division, Bureau of Animal Industry. Pp. 24, fig. 5.

Farmers' Bulletin 573. The Angora Goat. By L. L. Heller, Animal Husbandry Division, Bureau of Animal Industry. Pp. 16, figs. 6.

Farmers' Bulletin 574. Poultry House Construction. By Alfred R. Lee, junior animal husbandman in poultry investigations, Animal Husbandry Division, Bureau of Animal Industry. Pp. 20, figs. 13.

Farmers' Bulletin 580. Beef Production in the South. By W. F. Ward, senior animal husbandman in beef cattle investigations, Animal Husbandry Division, Bureau of Animal Industry, and Dan T. Gray, chief of the Animal Industry Division of the North Carolina Experiment Station. Pp. 20, figs. 9.

Progress and Results of Cattle-Tick Eradication. Pp. 12.

Animals Imported for Breeding Purposes for Which Certificates of Pure Breeding Have Been Issued by the Bureau of Animal Industry. Cattle, 1913. Pp. 32.

Flavor of Roquefort Cheese. By James N. Currie, chemist, Dairy Division, Bureau of Animal Industry. Pp. 1-14, Journal of Agricultural Research, April, 1914.

The Journal of Agricultural Research is not furnished by the department to employees, but reprints of articles in separate form will be sent on request.



## ORGANIZATION OF THE BUREAU OF ANIMAL INDUSTRY.

*Chief:* A. D. MELVIN.

*Assistant Chief:* A. M. FARRINGTON.

*Chief Clerk:* CHARLES C. CARROLL.

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